

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/083354 A1

(51) International Patent Classification⁷: G01C 9/12, 15/00, 15/10

(21) International Application Number:
PCT/EP2005/050726

(22) International Filing Date: 18 February 2005 (18.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0404509.2 27 February 2004 (27.02.2004) GB

(71) Applicant and

(72) Inventor: WILLIAMS, Nigel Emlyn [GB/GB]; 14 Wandsworth Bridge Road, London Greater London SW6 2TJ (GB).

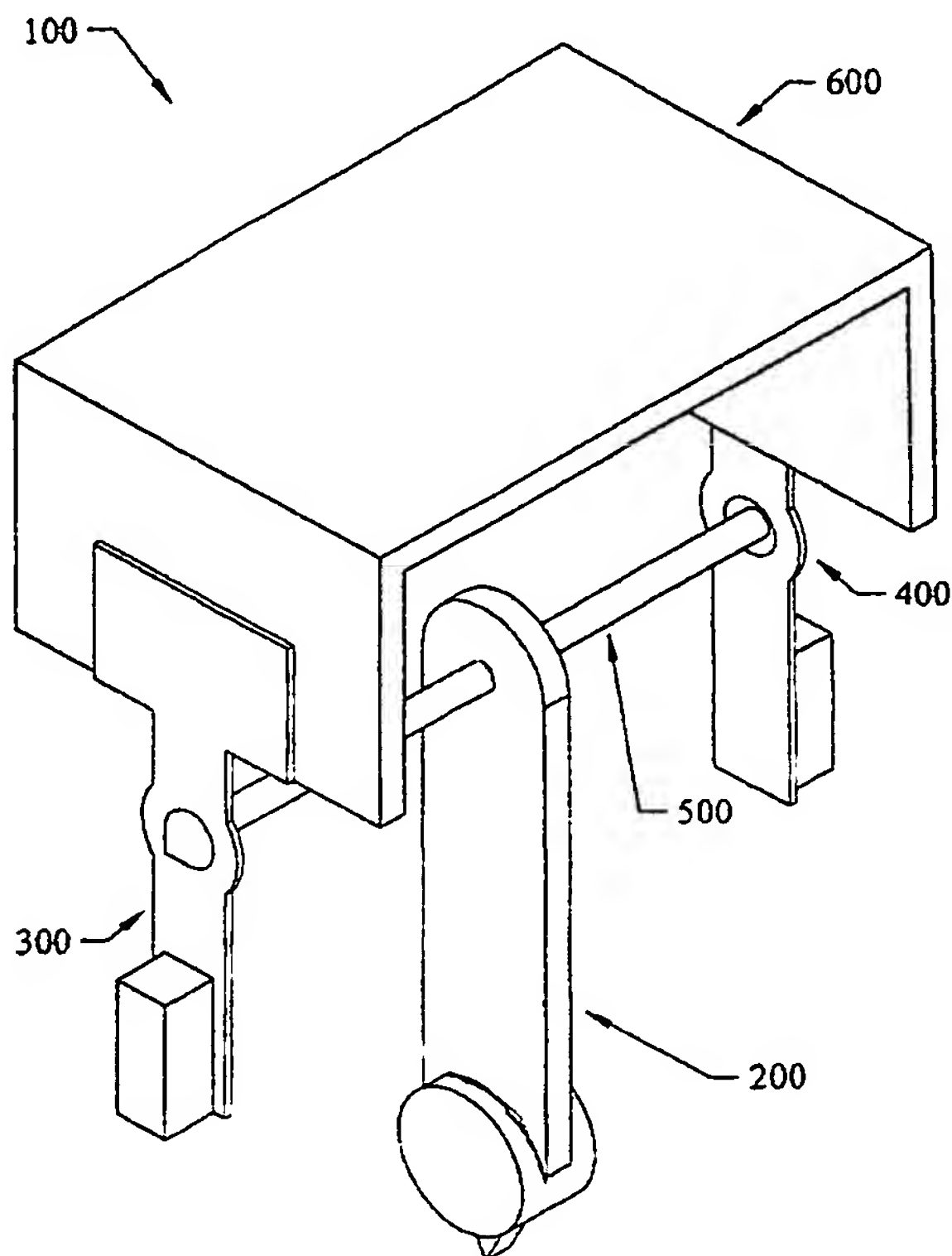
(74) Agent: BRUNNER, Michael J.; Broadgate House 7 Eldon Street, London Greater London EC2M 7LH (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: FRICTIONAL PIVOTS FOR GRAVITATIONAL ALIGNMENT



(57) Abstract: A frictional pivot (100) for use in a device measuring gravitational alignment is provided. The frictional pivot (100) comprises a gravity-responsive directional means (200) for indicating a datum direction of alignment with gravity; frictional pivoting means (300, 400) for allowing the gravity-responsive means coarsely to align with gravity; vibration means (303, 403) for vibrating one or more elements of the pivoting means; and portable power means (303a) for powering the vibration means (303, 403).

WO 2005/083354 A1

BEST AVAILABLE COPY

WO 2005/083354 A1



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY
